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### 14 September 2022

Change notice for characteristics of The SINGLE PHASE MOTOR SUPERLINE Q SERIES

This notice will be superseded the previous version. (DR-M-0454-A)

Dear Customers.

We gratefully thank you for supporting MITSUBISHI ELECTRIC's induction motor products.

The SINGLE PHASE MOTOR SUPERLINE Q SERIES has a nameplate with some incorrect values indicated.

Therefore, the nameplate will be changed as the below details. Again, we apologize for the unintentional shows inaccurate information, and our company sincerely hopes to receive your continued support.

### Detail

# 1. Objective Model SINGLE PHASE INDUCTION MOTOR SUPERLINE Q SERIES

Type : Model name	Split Phase Start : SP-QR Capacitor Start : SC(F)-QR (V) Capacitor Start and Run : SCL(F)-QR (V,FV)
Output	1/4 - 10HP
Pole	4P
Frame size	A71 - 132ML
Voltage, Frequency	220/230/220V 50/50/60Hz

### 2. Change content

Motor characteristics (Rated current, Rated Rotation speed, Rated efficiency). The detail of characteristic changes is shown in table 1-6.

Significantly, the models listed in Table 4 and some models in table 5 and 6 have removed the efficiency rating. Remark:

- 1) Due to this change, the values specified in the Nameplate, Test report, the representative values on Catalog, Outline drawing, Specification sheet, and Product specifications on the website will also change.
- 2) No change in the product's design, production process, quality control, and that is no effect in the safety of the product.
- 3) This change may affect the selection of peripheral devices (such as circuit breakers, contactors, protection devices, and thermal relays). Therefore, the customer should consider the rated current value according to this change.
- 4) In addition to nameplates and labels, no others change (Table 7).

## 3. Change period

This change starts from delivery of 2022/ August onwards.

DOC. NO: DR-M-0454-B : Change notice characteristics of 1 PHASE MOTOR SUPERLINE Q SERIES

Table 1 SINGLE PHASE SUPERLINE Q SERIES : Split phase start

Model name : SP-QR

# underlined value => changed value

Output	Rated	220V / 50Hz		230V / 50Hz		220V / 60Hz		IE1
Output	Rateu	Before	After	Before	After	Before	After	Applicable
1/4HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	2.8 1450 64.2	2.7 1425 58.5	2.9 1450 61.3	2.8 1435 58.5	2.4 1740 70.4	2.2 1720 66.0	1
1/3HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	3.1 1440 67.1	3.0 1420 61.5	3.2 1440 65.5	3.1 1425 61.5	2.8 1730 72.3	2.6 1715 68.0	1
1/2HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	4.8 1440 69.3	4.8 <u>1445</u> <u>66.8</u>	4.8 1440 67.6	<u>5.1</u> <u>1450</u> <u>66.8</u>	4.6 1730 72.5	4.0 1740 70.0	1

Table 2 SINGLE PHASE SUPERLINE Q SERIES : Capacitor start

Model name : SC-QR (V)

Output	Rated	220V / 50Hz		230V / 50Hz		220V / 60Hz		IE1
Output	Rateu	Before	After	Before	After	Before	After	Applicable
1/4HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	2.6 1450 65.5	2.6 <u>1425</u> <u>58.5</u>	2.7 1450 62.5	2.7 <u>1430</u> <u>58.5</u>	2.3 1740 70.8	2.2 1720 66.0	1
1/3HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	3.1 1450 64.9	3.1 <u>1420</u> <u>61.5</u>	3.2 1450 63.5	3.2 <u>1425</u> <u>61.5</u>	2.8 1740 69.6	2.7 1710 68.0	1
1/2HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	4.3 1430 70.0	<u>4.1</u> 1430 <u>66.8</u>	4.3 1430 70.4	4.2 1435 66.8	3.6 1720 72.7	3.6 1720 <u>70.0</u>	1

Table 3 SINGLE PHASE SUPERLINE Q SERIES: Capacitor start and Run

Model name : SCL-QR

Output Rated		220V / 50Hz		230V / 50Hz		220V / 60Hz		IE1
Output	Rateu	Before	After	Before	After	Before	After	Applicable
1HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	5.2 1430 77.5	5.3 1445 72.1	5.3 1440 75.6	5.5 1450 72.1	4.6 1720 81.1	4.5 1740 77.0	1
1.5HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	7.9 1440 78.6	7.8 1445 75.0	7.9 1440 75.9	8.1 1450 75.0	7.1 1720 82.0	6.6 1745 79.0	1
2HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	10.4 1450 80.1	10.3 1450 <u>77.2</u>	10.5 1450 77.5	10.4 1450 <u>77.2</u>	9.4 1740 82.9	8.8 1750 81.5	1
3HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	15.1 1450 82.3	15.8 1440 79.7	15.4 1460 82.2	15.8 1445 79.7	13.4 1740 85.4	13.6 1730 83.0	1

DOC. NO: DR-M-0454-B : Change notice characteristics of 1 PHASE MOTOR SUPERLINE Q SERIES

Table 4 SINGLE PHASE SUPERLINE Q SERIES : Capacitor start and Run

Model name : SCL-QR

Output	Rated	220V / 50Hz		230V / 50Hz		220V / 60Hz		IE1
Output		Before	After	Before	After	Before	After	Applicable
5HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	22.0 1450 84.5	<u>22.4</u> 1450 ※	22.0 1460 84.5	<u>22.1</u> 1460 ※	21.0 1740 85.0	22.1 1740 ※	×
7.5HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	31.0 1450 86.0	32.1 1450 ※	30.0 1450 86.0	30.8 1450 ※	30.0 1740 87.0	31.4 1740 ※	×
10HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	43.5 1440 86.3	44.7 1440 ※	41.0 1450 86.3	43.0 1445 ※	41.0 1730 87.5	43.7 1725 ※	×

※ : not specified

Table 5 SINGLE PHASE SUPERLINE Q SERIES : Capacitor start (Outdoor type)

Model name : SCF-QR (V)

Output	Rated	220V / 50Hz		230V / 50Hz		220V / 60Hz		IE1
Output		Before	After	Before	After	Before	After	Applicable
1/4HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	2.6 1450 65.5	2.6 <u>1425</u> ※	2.7 1450 62.5	2.7 <u>1430</u> <u>*</u>	2.3 1740 70.8	2.2 1720 ※	×
1/3HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	3.1 1450 64.9	3.1 <u>1420</u> <u>*</u>	3.2 1450 63.5	3.2 <u>1425</u> <u>*</u>	2.8 1740 69.6	2.7 1710 ※	×
1/2HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	4.3 1430 70.0	4.1 1430 66.8	4.3 1430 70.4	4.2 1435 66.8	3.6 1720 72.7	3.6 1720 <u>70.0</u>	1

Table 6 SINGLE PHASE SUPERLINE Q SERIES : Capacitor start and Run (Outdoor type)

Model name: SCLF-QR (V,FV)

Output Rated		220V / 50Hz		230V / 50Hz		220V / 60Hz		IE1
Output	Rateu	Before	After	Before	After	Before	After	Applicable
1HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	5.2 1430 77.5	5.3 1445 72.1	5.3 1440 75.6	<u>5.5</u> 1450 72.1	4.6 1720 81.1	4.5 1740 77.0	1
1.5HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	7.9 1440 78.6	7.8 1445 75.0	7.9 1440 75.9	<u>8.1</u> 1450 75.0	7.1 1720 82.0	6.6 1745 79.0	1
2HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	10.4 1450 80.1	10.3 1450 <u>77.2</u>	10.5 1450 77.5	<u>10.4</u> 1450 <u>77.2</u>	9.4 1740 82.9	8.8 1750 81.5	1
3HP	Current (A) Speed (min <sup>-1</sup> ) Efficiency (%)	15.1 1450 82.3	15.8 1440 ※	15.4 1460 82.2	15.8 1445 ※	13.4 1740 85.4	13.6 1730 ※	×

Table 7: Show changes point on nameplate and label. (In addition to nameplates and labels, no others changed.)

